

**Táborská M., Přivětivý T., Vrška T. & Ódor P. (2015): Bryophytes associated with two tree species and different stages of decay in a natural fir-beech mixed forest in the Czech Republic. – Preslia 87: 387–401.**

**Electronic Appendix 2.** – Log level species richness analysis of liverwort and mosses (separately).

The effect of tree species (*Abies*, *Fagus*), decay stages (DS1, DS2, DS3) and their interaction was tested by general linear models using Poisson error structure and log link function. The model selection was based on deviance analysis using Chi square statistics. The differences among the levels of decay stages were tested by Tukey multiple comparisons.

For liverworts both tree species and decay stages were included in the final model (quasi  $R^2=0.265$ , deviance=19.34, df=3, p=0.0002). The species richness of *Abies* was higher than that of *Fagus* (Table A2.1, deviance=8.09, df=2, p=0.0044). The effect of decay stages was also significant (deviance 11.25, df=2, p=0.0036), the species richness of DS2 and DS3 were significantly higher than that of DS1 (Table A2.1, DS2-DS1 p=0.0475; DS3-DS1 p=0.0207; DS2-DS3 p=0.9107).

For mosses similarly to liverworts both tree species and decay stages were included in the final model (quasi  $R^2=0.282$ , deviance=19.083, df=3, p=0.0002). However in their case *Fagus* had higher species richness (Table A2.2, deviance=5.25, df=1, p=0.0219) and DS2 had higher species richness than DS1 and DS3 (Table A2.2, deviance 13.83, df=2, p=0.0010, multiple comparisons: DS2-DS1 p=0.0091; DS2-DS3 p=0.0062, DS3-DS1 p=0.9991).

Table 1. – Stand and log level species richness of liverworts. Different letters means significant differences.

	Stand level species richness	Log level species richness
Total	20	2.9 ± 1.95
Tree species		
<i>Abies alba</i>	14	3.6 ± 2.23 <sup>a</sup>
<i>Fagus sylvatica</i>	15	2.3 ± 1.39 <sup>b</sup>
Decay stages		
DS1	10	1.8 ± 1.33 <sup>a</sup>
DS2	15	3.3 ± 1.90 <sup>b</sup>
DS3	13	3.5 ± 2.14 <sup>b</sup>
Combination		
<i>Abies</i> DS1	7	1.8 ± 1.16 <sup>b</sup>
<i>Abies</i> DS2	12	3.9 ± 2.38 <sup>ns</sup>
<i>Abies</i> DS3	10	4.8 ± 1.87 <sup>a</sup>
<i>Fagus</i> DS1	6	1.9 ± 1.54 <sup>b</sup>
<i>Fagus</i> DS2	9	2.7 ± 1.19 <sup>ns</sup>
<i>Fagus</i> DS3	7	2.1 ± 1.45 <sup>b</sup>

Table 2. – Stand and log level species richness of mosses. Different letters means significant differences.

	Stand level species richness	Log level species richness
Total	48	7.4 ± 3.06
Tree species		
<i>Abies alba</i>	28	6.5 ± 2.78 <sup>a</sup>
<i>Fagus sylvatica</i>	44	8.2 ± 3.12 <sup>b</sup>
Decay stages		
DS1	28	6.4 ± 2.32 <sup>a</sup>
DS2	41	9.1 ± 3.41 <sup>b</sup>
DS3	28	6.3 ± 2.36 <sup>a</sup>
Combination		
<i>Abies</i> DS1	14	5.6 ± 1.60 <sup>a</sup>
<i>Abies</i> DS2	28	8.0 ± 3.71 <sup>ns</sup>
<i>Abies</i> DS3	16	5.7 ± 1.89 <sup>a</sup>
<i>Fagus</i> DS1	24	7.0 ± 2.74 <sup>ns</sup>
<i>Fagus</i> DS2	34	10.2 ± 2.89 <sup>b</sup>
<i>Fagus</i> DS3	23	7.0 ± 2.74 <sup>ns</sup>